

IN THE CLAIMS

**1. (currently amended)** A ~~target practice~~ laser transmitting/receiving system for target practice including a laser transmitter ~~for transmitting a laser signal~~ and a laser receiver ~~for receiving a laser signal~~, wherein

    said laser transmitter is provided with a modulator for modulating a laser signal by position information of said laser transmitter side and

    said laser receiver is provided with an information extractor for extracting said position information from said a received laser signal and a judgment unit for judging the a shot effect using the extracted position information.

**2. (currently amended)** A ~~target practice~~ laser transmitting/receiving system for target practice as set forth in claim 1, wherein said laser transmitter ~~is a shooting side apparatus receiving a shot trigger signal from a shooting apparatus of a weapon and transmitting said laser signal in the shot direction; and said shooting side apparatus is provided with a shooting side position finder for generating said position information and a shooting side recording apparatus for continuously recording the position information output from said shooting side position finder and is designed to transmit not only an ID number of said shooting side apparatus, shot weapon type information, and shot munition type information, but also the position information of said shooting side apparatus output from said shooting side position finder included in~~ transmits said modulated laser signal in response to ~~receipt of a shot trigger signal from the a~~ shooting apparatus of the a weapon.

**3. (currently amended)** A target practice laser transmitting/receiving system for target practice as set forth in claim 1, wherein said shooting side position finder also generates time information of the time said shooting side position finder generated said position information, said shooting side recording apparatus also continuously records the time information output from said shooting side position finder, and said transmitter transmits not only the position information of said shooting side apparatus, but also said time information output from said shooting side position finder included in said laser signal in response to receipt of a shot trigger signal from the shooting apparatus of the weapon laser transmitter side is the position information output from a shooting side position finder of said laser transmitter side.

**4. (currently amended)** A target practice laser transmitting/receiving system for target practice as set forth in claim 1, wherein said laser receiver is a target side apparatus for receiving a laser signal from said laser transmitter and judging the shot effect; said target side apparatus is provided with a target side position finder for generating position information of said target side apparatus, a target side recording apparatus for continuously recording position information output from said target side position finder, and a munition type parameter recorder for recording munition type parameters necessary for calculation of a hit risk range for each shot munition type and uses the position information of said target side apparatus obtained from said target side position finder when receiving a laser signal transmitted by said shooting side apparatus, shot weapon type information included in the laser signal transmitted by said shooting side apparatus obtained from said parameter recorder, and munition type parameters including the velocity of the shot munition recorded for each shot munition type information, the plurality of ranges of tracking of a target by a shot munition set for the different states of damage, and the effective time or effective range of the shot munition to calculate and

~~record the hit risk range by a coordinate range of a 3D reference system and compares the recorded hit risk range and position of said target side apparatus obtained from said target side position finder so as to judge the shot effect~~ said position information is the most recent position information in the continuously recorded position information.

**5. (currently amended)** A target practice laser transmitting/receiving system as set forth in claim 4, wherein ~~said target side position finder also generates time information of the time of generation of the position information, said target side recording apparatus also records said time information output from said target side position finder, said hit risk range is calculated and recorded for each predetermined elapsed time from a shot, and said shot effect is judged for every predetermined elapsed time from a shot~~ transmitter for target practice comprising a modulator for modulating a laser signal by position information of the laser transmitter side.

**6. (currently amended)** A target practice laser transmitting/receiving system as set forth in claim 4 or 5, wherein ~~said system is further provided with a munition type parameter write apparatus for preparing munition type parameters required for calculation of said hit risk range and writing them in said target side apparatus, and said munition type parameter write apparatus is provided with a means for preparing and recording said munition type parameters for each said shot weapon type information and said shot munition type information and writing them in said munition type parameter recorder of said target side apparatus~~ transmitter for target practice as set forth in claim 5, wherein the position information of said laser transmitter side is the position information output from a shooting side position finder.

**7. (currently amended)** A target practice laser transmitting/receiving system as set forth in claim 5, wherein said shooting side apparatus is further provided with a terrain recorder for recording coordinate ranges of the 3D reference system of terrain based safe regions, calculates and records a shot heading based on position information of said target side apparatus obtained from said target side position finder for each elapse of a predetermined time from receiving a laser signal transmitted from said shooting side apparatus and position information of said shooting side apparatus obtained from the laser signal transmitted by said shooting side apparatus, and compares the coordinate ranges of the 3D reference system of the terrain based safe regions recorded by said terrain recorder for each heading at which said target side apparatus is shot and the position of said target side apparatus obtained from said target side position finder so as to judge the shot effect transmitter for target practice as set forth in claim 5, wherein said modulator further modulates shot munition type information.

**8. (currently amended)** A target practice laser transmitting/receiving system as set forth in claim 5, wherein said system is further provided with a terrain write apparatus for calculating and recording terrain based safe regions for each heading at which said target side apparatus is shot and writing them in said target side apparatus, and said terrain write apparatus is provided with a means for calculating and recording terrain based safe regions caused by specific terrain able to be used for evasive action of shooting in an actual practice grounds, that is, projecting terrain and recessed terrain, for each heading at which said target side apparatus is shot as ranges giving a dead angle from said shooting side apparatus and arranging them on a map of the practice grounds matched with the terrain of the practice grounds so as to calculate and record the terrain based safe regions by coordinate ranges of the 3D reference system and a means for writing the calculated terrain based safe regions in said terrain recorder of said shooting

side apparatus transmitter for target practice as set forth in claim 5, wherein said position information is the most recent position information in the continuously recorded position information.

**9. (currently amended)** A target practice laser transmitting/receiving system as set forth in claim 1, wherein said shooting side apparatus is further provided with a shot simulator including a plurality of smoke generators of different smoke colors for simulating a shot when receiving a shot trigger signal of a weapon and changes the color of the smoke to simulate the shot by selection of one of said plurality of smoke generators in accordance with the shot munition type transmitter for target practice comprising a modulator for modulating a laser signal by position information, wherein, in response to a signal from a shooting apparatus of a weapon, a laser signal is modulated by said position information and is transmitted, said position information being position information of a shooting side apparatus.

**10. (currently amended)** A target practice laser transmitting/receiving system as set forth in claim 4, wherein said target side apparatus is further provided with a smoke generator and changes the amount of smoke from said smoke generator in accordance with the results of judgment of the shot effect to simulate the damage An apparatus for target practice comprising:

a judgment unit for judging the shot effect using position information extracted from received laser signal.

**11. (currently amended)** A target practice laser transmitting/receiving system as set forth in claim 4, wherein said target side apparatus is provided with an evasive action recorder for recording evasive action of said target side apparatus when receiving a laser

~~signal transmitted by said shooting side apparatus and records in said evasive action recorder the position of said target side apparatus for every elapse of a predetermined time from receiving the laser signal transmitted by said shooting side apparatus, position of said shooting side apparatus, position of said shot munition, plurality of ranges of tracking of a target by a shot munition set for the different states of damage, heading at which said target side apparatus was shot, and results of judgment of the shot effect~~ An apparatus for target practice comprising:

a judgment unit for judging a shot effect in accordance with a distance obtained from position information extracted from received laser signal and position information of the own receiver side.

**12. (currently amended)** ~~A target practice laser transmitting/receiving system as set forth in claim 11, wherein said system is further provided with an evasive action evaluation apparatus for reading and displaying the path of movement of said target side apparatus recorded when said target side apparatus is shot at, and said evasive action evaluation apparatus is provided with a means for reading the position of said target side apparatus recorded in the evasive action recorder of said target side apparatus, position of said shooting side apparatus, position of said shot munition, plurality of ranges of tracking of a target by a shot munition set for the different states of damage, heading at which said target side apparatus is shot, and results of judgment of the shot effect and a means for displaying and recording the position of said shooting side apparatus, heading at which said target side apparatus is shot, hit risk range, path of said target side apparatus, and results of judgment of the shot effect for a predetermined elapsed time after shooting by the read data~~ An apparatus for target practice comprising:

a munition type parameter recorder for recording munition type parameters for each shot munition type; and

a judgment unit for judging the shot effect by using position information extracted from received signal, the munition type parameters in accordance with a shot munition type information extracted from said received signal, and position information of the own receiver side.

13. (currently amended) A target practice laser transmitting/receiving system as set forth in claim 1, wherein said laser receiver is a target side apparatus receiving a laser signal from said laser transmitter to judge the shot effect; and said target side apparatus is provided with a target side position finder for generating position information of said target side apparatus and a target side recording apparatus for continuously recording said position information output from said target side position finder and is designed to calculate the difference in distance between said shooting side apparatus and said target side apparatus at the time of a shot from the position information of said target side apparatus obtained by said target side position finder and position information of said shooting side apparatus obtained from the laser signal transmitted by said shooting side apparatus and judge the extent of damage in accordance with the difference in distance when receiving a laser signal transmitted by said shooting side apparatus and when the modulated shot weapon type information included in the laser signal transmitted by said shooting side apparatus simulates a small weapon including a rifle or pistol. A controller for transmitting position information to a laser transmitter provided with a modulator for modulating a laser signal by the position information, wherein in response to a signal from a shooting apparatus of a weapon, position information is transmitted to said laser transmitter, said position information being position information of said modulator.

14. – 34. (canceled)